

Date: Fri, 20 May 94 04:30:35 PDT  
From: Ham-Digital Mailing List and Newsgroup <ham-digital@ucsd.edu>  
Errors-To: Ham-Digital-Errors@UCSD.Edu  
Reply-To: Ham-Digital@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Digital Digest V94 #155  
To: Ham-Digital

Ham-Digital Digest                      Fri, 20 May 94                      Volume 94 : Issue 155

Today's Topics:

                    9600 and Mitrek radios  
                    AEA DSP2232 Mailing List  
                    Baycom circuit? (2 msgs)  
          HTX-202 with PacComm Micropower-2 TNC?  
          HTX-404 and ICOM 12 volt pack  
          PacTOR FEC timing/format issue  
          Paket51 upgrade? (2 msgs)  
                    Returned Mail  
                    Wampes Set-up?  
          XIJ and programming support

Send Replies or notes for publication to: <Ham-Digital@UCSD.Edu>  
Send subscription requests to: <Ham-Digital-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Digital Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-digital".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

-----

Date: Wed, 18 May 1994 00:47:11 GMT  
From: ihnp4.ucsd.edu!ucsnews!sol.ctr.columbia.edu!howland.reston.ans.net!  
cs.utexas.edu!asuvax!ennews!stat!aznetig!daniel.meredith@network.ucsd.edu  
Subject: 9600 and Mitrek radios  
To: ham-digital@ucsd.edu

-> From: steve.diggs@totrbbs.atl.ga.us (Steve Diggs)  
-> Newsgroups: rec.radio.amateur.digital.misc  
-> Subject: 9600 and Mitrek radios  
-> Date: 16 May 94 07:28:00 GMT  
-> Message-ID: <489.18.uupcb@totrbbs.atl.ga.us>  
-> Organization: Top Of The Rock BBS Atl, GA 404-921-8687  
->

->  
-> -> Un fortunately, I don't have his/her E-mail address and the news  
-> -> system dunned all of the posts. Please E-mail mail if you were th  
-> -> individule as news on this end of the line isn't doing the job.  
-> -> THANKS!  
->  
-> I wasn't the original requestor, but I'd like a copy too, Sean.  
->  
-> This is regarding the 9600 interface for Motorola Mitrex XCVRs.  
->  
-> Regards,  
-> Steve Diggs  
-> steve.diggs@totrbbs.atl.ga.us  
->  
-> ----  
-> Top Of The Rock BBS - Lilburn, GA                   SYSOP: Steve Diggs  
-> UUCP: totrbbs.atl.ga.us                               Snailmail: 4181 Wash Lee Ct.  
-> Phone: +1 404 921 8687                               Lilburn, GA 30247-74

I have a compilation of what I've used with Mitrek's and Micor's and  
as well MOCOM 35's and some other radios that I have in service.

I was probably the one that e-mailed the original...E-mail me directly  
and I'll provide you with whatever info. you are after...

Dan

-----  
Date: 19 May 94 22:01:03 GMT  
From: agate!howland.reston.ans.net!EU.net!Germany.EU.net!Aachen.Germany.EU.net!  
rmi.de!Aachen.Germany.EU.net!rmi.de!not-for-mail@ucbvax.berkeley.edu  
Subject: AEA DSP2232 Mailing List  
To: ham-digital@ucsd.edu

=====  
          This is the Mailserver at EUnet EUregio POP Aachen  
=====

If you are interested in exchanging information on the

AEA DSP 2232 - Digital Signal Processing Multi-Mode Data Controller

you are invited to join our Mailing list (started on May 12, 1994).  
Please subscribe by sending a Mail to

dsp2232-request@rmi.de   [or dsp2232-request@Aachen.Germany.EU.net]  
with the subject: "subscribe" .

If you would like to share your experiences of knowledge on the unit, write your contributions to

dsp2232@rmi.de [or dsp2232@Aachen.Germany.EU.net].

=====  
Automatic weekly mailing  
=====

-----  
Date: 19 May 1994 16:09:08 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!s1.gov!fastrac.llnl.gov!lll-winken.llnl.gov!  
sol.ctr.columbia.edu!howland.reston.ans.net!usc!elroy.jpl.nasa.gov!netline-  
fddi.jpl.nasa.gov!@ihnp4.ucsd.edu  
Subject: Baycom circuit?  
To: ham-digital@ucsd.edu

Darryl Linkow (darryl.linkow@ledge.com) wrote:

: I have downloaded the Baycom software and read the manual. From  
: what I can understand, this software lets me use do packet without  
: a TNC. What I don't understand is how I connect my HT to my  
: computer. The manual shows some inputs to a serial port, but don't  
: I need a modem as well? Also, there is something about a small  
: circuit board to interface the radio to the RS-232 port. Anyone  
: have any info on this? Also, is anyone using Baycom? If so, are  
: you happy with it? Or should I spend a bunch of money and buy a  
: TNC? I am new to ham radio (I am still waiting for my license, 7  
: weeks now!) and don't know if I will like packet, so I am looking  
: to get my feet wet at a low cost, to see if I like it. Any info  
: would be appreciated.

: ---

: ≥ OLX 2.2 ≥ Darryl Linkow (818)346-5278 9 am - 5 pm PDT

daryll -

i'm new to packet and i am using a baycom. i bought the software and modem  
for \$50, more or less. yes, you need a modem to interface your radio to  
the computer. the circuit of baycom's modem is available (i think) on some  
boards or you will find adds for baycom in qst.

it seems to work fine, at least for the stuff i use it for. it seems a  
cheap intro to packet.

regards, richard kd6lwd

rspear@sookit.jpl.nasa.gov  
all disclaimers apply

-----  
Date: Wed, 18 May 94 20:44:00 -0800  
From: ucsnews!sol.ctr.columbia.edu!howland.reston.ans.net!math.ohio-state.edu!usc!  
elroy.jpl.nasa.gov!netline-fddi.jpl.nasa.gov!nntp-server.caltech.edu!  
news.claremont.edu!kaiwan.com!@ihnp4.ucsd.edu  
Subject: Baycom circuit?  
To: ham-digital@ucsd.edu

I have downloaded the Baycom software and read the manual. From what I can understand, this software let's me use do packet without a TNC. What I don't understand is how I connect my HT to my computer. The manual shows some inputs to a serial port, but don't I need a modem as well? Also, there is something about a small circuit board to interface the radio to the RS-232 port. Anyone have any info on this? Also, is anyone using Baycom? If so, are you happy with it? Or should I spend a bunch of money and buy a TNC? I am new to ham radio (I am still waiting for my license, 7 weeks now!) and don't know if I will like packet, so I am looking to get my feet wet at a low cost, to see if I like it. Any info would be appreciated.

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≥ OLX 2.2 ≥ Darryl Linkow (818)346-5278 9 am - 5 pm PDT

-----  
Date: 18 May 1994 18:43:50 GMT  
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!math.ohio-state.edu!  
hobbes.physics.uiowa.edu!news.uiowa.edu!icaen!drenze@network.ucsd.edu  
Subject: HTX-202 with PacComm Micropower-2 TNC?  
To: ham-digital@ucsd.edu

I'm going to be connecting a PacComm Micropower-2 TNC to my Realistic HTX-202 as soon as I get a cable cobbled together. Does anybody know about what a good volume level for the '202 is in this configuration?

Also, what's the TX Delay for the '202. The manual doesn't seem to be of any help, unfortunately (which is too bad, considering that for the HTX-100 they mention what the TX delay is).

Tnx in advance,

Doug N0YVW

--

--	/		Doug Renze, N0YVW		
\	'o.O'		+1 319 339 7814		Amateur Radio:
=	(---)	=	drenze@icaen.uiowa.edu		Bringing the World Together
	U				

-----

Date: 19 May 94 19:07:00 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: HTX-404 and ICOM 12 volt pack  
To: ham-digital@ucsd.edu

Mike in Digest 154 writes:

>I just bought a HTX-404 from er, ah.. Radio Shack, and knowing that they  
>are  
>made by ICOM and noticing that the battery pack looks the same,  
>I asked the GBTC (Guy Behind the Counter) about whether I could use  
>my ICOM battery packs on it. He said no, that if you use a higher voltage  
>battery pack (for instance a 12 volt one) it "would burn out a little diode  
>inside the radio"..  
>  
> Anybody know whether this is true? If so, it seems like a colossal  
>design blunder, especially seeing as how there is no warning in the  
>user's manual telling you not to do this!

Mike,

No, you can't put the ICOM 12 volt pack on the HTX-404. It would probably work for a while but it would cause serious overheating of a regulator that was designed to work with the stock battery pack. Yes, you are right, it is a serious booboo. By the way, it is not an ICOM rig, it is Midland. Unless of course, ICOM makes it for Midland who then puts Radio Shack on the label.

Kevin

Legal stuff:

The above opinions are my own and not necessarily those of the staff, faculty, administration, or lab animals (woof!) of The University of Texas Health Science Center at San Antonio.

-----	
Kevin R. Muenzler, WB5RUE	The University of Texas Health
muenzlerk@uthscsa.edu	Science Center at San Antonio,

(210) 567-2095

Department of Computing Resources

★★ There is no such thing as a Monkey-Proof Program! ★★

★★ I can prove it! ★★

Date: 18 May 1994 20:49:23 GMT

From: ihnp4.ucsd.edu!ucsnews!newshub.sdsu.edu!nic-nac.CSU.net!usc!math.ohio-state.edu!howland.reston.ans.net!vixen.cso.uiuc.edu!prairienet.org!

k9cw@network.ucsd.edu

Subject: PacTOR FEC timing/format issue

To: ham-digital@ucsd.edu

In a previous article, khopper@kimbark.uchicago.edu (Kenneth C Hopper) says:

> When transmitting a CQ in FEC mode the actual signal had  
> ARQ timing and sounded like a QSO instead of the more fam-  
> iliar higher speed stream of AMTOR and PacTOR FEC sigs. A  
> contact in FEC mode QSO on 20M confirmed that it looked  
> and sounded very strange to K7RD.  
>

I have the SCS Pactor spec; there is no spec on block repeat time for Pactor FEC. The two units that I have tested (PK232 and SCS) both repeat the FEC block with a 1 sec period. However, in talking the SCS people at Dayton, their intent was to use a correct CRC as the sync indicator rather than locking to a particular transmit time, as you do in an ARQ link. With the frame header character that they have selected, it makes it real hard to sync on the front end of the block.

73, Drew

--

```
*-----*
| Andrew B. White K9CW | internet: k9cw@prairienet.org |
| ABW Associates, Ltd. | phone/fax: 217-643-7327 |
*-----*
```

Date: 18 May 1994 22:56:12 GMT

From: ihnp4.ucsd.edu!agate!darkstar.UCSC.EDU!news.hal.COM!olivea!channel.ecst.csuchico.edu!psgrain!library.ucla.edu!nntp.ucsb.edu!

usenet@network.ucsd.edu

Subject: Paket51 Upgrade?

To: ham-digital@ucsd.edu

-----  
Date: 18 May 1994 22:44:18 GMT  
From: ucsnews!sol.ctr.columbia.edu!howland.reston.ans.net!cs.utexas.edu!usc!nic-  
nac.CSU.net!charnel.ecst.csuchico.edu!psgrain!nntp.cs.ubc.ca!unixg.ubc.ca!  
news.mic.ucla.edu!@@ihnp4.ucsd.edu  
Subject: Paket51 upgrade?  
To: ham-digital@ucsd.edu

-----  
Date: 19 May 94 15:10:00 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Returned Mail  
To: ham-digital@ucsd.edu

Mail could not be delivered to the following  
recipients:

RELAY.TCP-GROUP@ADP

----- Original Message Follows -----

X-ENVELOPE-FROM:<owner-ham-digital@ucsd.edu>  
X-TO:<relay.tcp-group@ADP>  
Received: from pgd.adp.wisc.edu by BLUE.ADP.WISC.EDU (IBM MVS SMTP V2R2.1)  
with TCP; Thu, 19 May 94 10:07:13 CST  
Received: from ucsd.edu by pgd.adp.wisc.edu with SMTP  
id AA17555 ; Thu, 19 May 94 09:59:50 CST  
Received: by ucsd.edu; id EAA16772  
sendmail 8.6.9/UCSD-2.2-sun  
Thu, 19 May 1994 04:30:23 -0700 for ham-digital-list  
Errors-To: ham-digital-relay@UCSD.EDU  
Sender: ham-digital-relay@UCSD.EDU  
Precedence: List  
Received: by ucsd.edu; id EAA16766  
sendmail 8.6.9/UCSD-2.2-sun  
Thu, 19 May 1994 04:30:21 -0700 for ham-digital-ddist  
Message-Id: <199405191130.EAA16766@ucsd.edu>  
Date: Thu, 19 May 94 04:30:20 PDT  
From: Ham-Digital Mailing List and Newsgroup <ham-digital@UCSD.EDU>  
Errors-To: Ham-Digital-Errors@UCSD.EDU  
Reply-To: Ham-Digital@UCSD.EDU

Precedence: Bulk  
Subject: Ham-Digital Digest V94 #154  
XT: Ham-Digital@UCSD.EDU

Ham-Digital Digest                      Thu, 19 May 94                      Volume 94 : Issue 154

Today's Topics:

   (none)  
   9600 bps radio modems  
   A question  
   HTX-404  
   anyone use Mac-KPC-3-Hostmaster??

Send Replies or notes for publication to: <Ham-Digital@UCSD.Edu>  
Send subscription requests to: <Ham-Digital-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

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herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

-----

Date: 17 May 94 10:49:09 GMT

From:

agate!howland.reston.ans.net!usenet.ins.cwru.edu!eff!news.kei.com!news.byu.edu!  
news.mtholyoke.edu!world!mv!lmr!rapp@ucbvax.berkeley.edu

Subject: (none)

To: ham-digital@ucsd.edu

0006429120@mcimail.COM (James R. Hill) writes:

> I need information on basic netrom chip burning. I have all the  
> paperwork on TheNet X-1J Release 2 but they do not say how to burn  
> basic EPROMS. I have sent my \$15 to the North East Digital Assn,  
> Manchester NH for their TheNet X-1J network guide but nothing  
> received yet. I'm more than a little miffed at the lack of help  
> by a certain SYSOP on the Northern Calif DX Packet network.  
>  
> Any help on getting started will be greatly appreciated.

James,

I don't know much more than a tame crow, but...



Well, I'm about to do the same thing myself, so maybe we can help each other. The reason that there is no information provided is probably because it depends upon the EPROM burner that you are using. The one I use simply takes an image file and burns it into the EPROM. First, however, I think you have to use the editor to set those parameters which go in the EPROM. I just got X-1J R2, and haven't looked at the tools (if any) which come with it.

Maybe someone who knows something will join in here.

Larry W1HJF

-----  
L. M. Rappaport & Associates, Inc.    rapp@lmr.mv.com    voice +1 603 237 8400  
Colebrook, NH 03576-0158            CIS 72427,2567    fax    +1 603 237 8430  
-----

Date: 18 May 1994 20:29:31 GMT  
From: nothing.ucsd.edu!brian@network.ucsd.edu  
Subject: 9600 bps radio modems  
To: ham-digital@ucsd.edu

I'm disgusted with the performance of the carrier detect circuits in the three popular 9600 bps radio modems used by amateurs - the K9NG, G3RUH, and new TAPR modems.

None of these has a good carrier detect circuit. All three use a DPLL to discover that there's a data carrier out there, which doesn't really work very well. Those circuits chatter; they occasionally false on background noise, and can be fooled by interference of various kinds.

The K9NG design doesn't do much about that; its DCD output just chatters. If you use it to gate data to the USART in the attached TNC or PAD, you lose perfectly good packets because the DCD chattered off in the middle of a packet. If you use it to key your repeater TX, the radio will thrash all the time because of the false DCD indications.

Sure, in the G3RUH and TAPR modems, additional circuitry has been added to prevent the thrashing, and the output of the DPLL is "smoothed" to eliminate most of the chatter, but there is still one big remaining problem:

They're SLOW!

These things are taking between 50 and 100 msec to indicate an incoming carrier. That's longer than some of the packets. Waste of bandwidth.

I'd really like to come up with some sort of better DCD - and it

wouldn't hurt if it had better data recovery performance as well.

Sure, the right answer is DSP. N4HY will tell you that, and I agree.  
But short of that, is there some approach that'll help?

(Being compatible with the scrambled direct FSK that the current modems  
use would be a plus, but isn't required.)

- Brian

-----  
Date: Tue, 17 May 1994 23:10:16 GMT  
From: valinor.mythical.com!n5ial!jim@uunet.uu.net  
Subject: A question  
To: ham-digital@ucsd.edu

In article <m0q2MWk-000F5pC@lautaro> plazaip@enlaces.ufro.CL writes:  
>Hello: Does anyone could give any information about the next software:

>IBM PC:

>- Kanterm-PC

I'm the author of KAMterm. KAMterm is a (currently only dos-based)  
terminal program for Kantronics TNCs that takes advantage of the Kantronics  
host mode terminal interface. This mode basically allows you to do a lot  
of things that you can't do in the normal dumb-terminal mode.

If you'd like more information about it, please feel free to e-mail me (be  
sure to put ``KAMterm'' in the subject line---I'm \*\*\*WAY\*\*\* behind on  
e-mail, but KAMterm mail always gets my fastest possible response, i.e.,  
it's usually only delayed by UUCP delays...and nothing else).

Later,  
--jim

--  
73 DE N5IAL (/4) < Running Linux \*1.00\*! >  
jim@n5ial.mythical.com ICBM: 30.23N 86.32W  
j.j.graham@ieee.org Packet: N5IAL@W4ZBB (Ft. Walton Beach, FL)  
E-mail me for information about KAMterm (host mode for Kantronics TNCs).

-----  
Date: 18 May 94 23:11:56 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: HTX-404  
To: ham-digital@ucsd.edu

I just bought a HTX-404 from er, ah.. Radio Shack, and knowing that they are made by ICOM and noticing that the battery pack looks the same, I asked the GBTC (Guy Behind the Counter) about whether I could use my ICOM battery packs on it. He said no, that if you use a higher voltage battery pack (for instance a 12 volt one) it "would burn out a little diode inside the radio"..

Anybody know whether this is true? If so, it seems like a colossal design blunder, especially seeing as how there is no warning in the user's manual telling you not to do this!

```
-----
73 de Mike,      ax.25net:      N6KUY@W6JBT.#SOCA.CA.USA.NA
                  amprnet:      n6kuy@n6kuy.ampr.org <44.18.0.49|
                  internet :     mwestfal@silicon.csci.csusb.edu
                  "Old MacDonald had a farm, dit didit dit didit dahdahdah."
GCS/M { -d+ p+ c++ l u++ e+(*) m++(-) s/+ !n-(---) h-- !f g+ w+ t++ r-(--) y+ }
-----
```

```
-----
Date: 18 May 94 17:04:11 GMT
From:
agate!howland.reston.ans.net!usc!nic-nac.CSU.net!channel.ecst.csuchico.edu!psgr
ain!library.ucla.edu!news.ucdavis.edu!elroy.ucdavis.edu!szhall@ucbvax.berkeley.
edu
Subject: anyone use Mac-KPC-3-Hostmaster??
To: ham-digital@ucsd.edu
```

I have a Mac Classic and a KPC-3 TNC and Hostmaster software I may be using for VHF Packet. I would like any comments from hams who have used this set up..Some questions I have are..Is it fast or slow? Do use a special cable from the TNC to the PC? Please add any comments pro or con...Thanks for taking time to read this ..Jeff

```
-----
Date: Tue, 17 May 1994 06:24:38 +0000
From:
ihnp4.ucsd.edu!usc!howland.reston.ans.net!EU.net!uknet!demon!llondel.demon.co.u
k!dave@network.ucsd.edu
To: ham-digital@ucsd.edu
```

References <1bKrj4xQ5ee0055yn@tyrell.net>, <769016461snx@llondel.demon.co.uk>, <9iqrj4xQ5CLG055yn@tyrell.net>

Subject : Re: Help: Routing with X1J

In article <9iqrj4xQ5CLG055yn@tyrell.net> randyr@tyrell.net (Randy Rathbun) writes:

>  
>Out of curiosity, what experience do you have with the X1J v2 code? We just  
>got the code here in the KC area and are getting ready to blow new eproms  
>this week.

>  
Not installed v2 anywhere yet - I have the stuff but I haven't been to any of our remote sites for some time. Currently our local network is a mix of X1G, X1H and X1J and BPQ nodes, and while they work I tend to leave them alone (one site has kept its TNCs running for over 10,000 hours without a crash or power fail). I will get round to updating to X1J v2 sometime though :-)

Dave

--

```
*****
* G4WRW @ GB7WRW.#41.GBR.EU AX25      * Start at the beginning. Go on      *
* dave@llondel.demon.co.uk Internet * until the end. Then stop.      *
* g4wrw@g4wrw.ampr.org Amprnet * (the king to the white rabbit) *
*****
```

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End of Ham-Digital Digest V94 #154

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Date: 19 May 94 22:52:02 GMT  
From: newstf01.cr1.aol.com!search01.news.aol.com!not-for-mail@uunet.uu.net  
Subject: Wampes Set-up?  
To: ham-digital@ucsd.edu

I am new to Linux. I am trying to get Wampes (940511) running. I have it all compileed and working as far as connecting, telnet, etc. But I can't figure out how to get the smtp mail working. I have set up the mail.conf nad Systems files as described in the "intro.txt" Is there any good docs for Wampes available? Or can somebody take the time to tell me the secret? (I have been running JNOS on MSDOS and OS/2 for a couple years, so have a little experience there) Thanks,

John N4JS (n4js@tspan.org)

User of: MSDOS, OS/2, Linux....and Mac System 7)

-----  
Date: 19 May 94 15:51:12 GMT  
From: agate!howland.reston.ans.net!pipex!bt!srd!dparkins@ucbvax.berkeley.edu  
Subject: XIJ and programming support  
To: ham-digital@ucsd.edu

There was something here recently about getting TheNet XIJ code into  
EPROMs which I passed on to G8KBB (the author). The original's gone  
(things last a max of 36 hours here if you're lucky) but here's his  
reply to who ever it was.....

-----  
James is quite correct when he notes that all programmers are different.  
It is exactly for that reason that no guidance is offered. There are  
however the following:

- A utility to convert the ROM images to INTEL hex (source + exe)
- A utility to convert the ROM images to Motorola S (ditto)
- A patch utility that is used to customise the ROM image, with  
on line help and ability to save/load standard settings.
- A configuration guide for manual patching if you must do so
- A couple of examples of how to use the tools.

73's

Dave G8KBB

-----  
David

-----  
End of Ham-Digital Digest V94 #155  
\*\*\*\*\*